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20 OCT 1988

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ROUTING AND RECORD SHEET

IN STATE

SUBJECT: (Optional)

FROM: Edward J. Maloney
Director, OIT

EXTENSION

NO.

OIT #0578-88

DATE

19 OCT 1988

TO: (Officer designation, room number, and building)

DATE

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

1. Director, ICS

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ADMIN - SR

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OIT 0578-88

19 OCT 1988

MEMORANDUM FOR: Director, Intelligence Community Staff

FROM: Edward J. Maloney
Director of Information Technology

SUBJECT: NFIB Automated Distribution System Upgrade (U)

REFERENCE: Memo for D/OIT fm Ad/ICS (ICS 4235-88), dtd 13 Jun 88,
Same Subject

Please accept my apologies for the long delay in responding to your memorandum of 13 June. In the interim, however, members of our respective staffs have been in contact and we are presently providing the requested support for the upgrade of the NFIB Automated Distribution System. The OIT point of contact for this effort is OIT/NSG/Communications Engineering Division. (C)

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Edward J. Maloney

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ICS 4235-88
13 June 1988

MEMORANDUM FOR: Director, Office of Information Technology

FROM:

[REDACTED]
Acting Director, Intelligence Community Staff

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SUBJECT: Request for Communications Support for NFIB ADS Upgrade
Under OIT Project Number 88-1991

1. Since 1982, OIT and its predecessor organizations have provided outstanding technical assistance and maintenance support for the operation of the NFIB ADS. NFIB ADS is an information handling system dedicated to the timely coordination of NFIB actions including development and approval of National Intelligence Estimates (NIEs) and announcements, proposed agenda, and minutes of NFIB meetings. It is based on 12 year old WANG equipment that is no longer manufactured. Maintenance of the system is increasingly dependent upon the scavenging of parts from existing Agency equipment. It is estimated that the existing equipment will be completely obsolete by early 1990. Planning for the replacement of the NFIB ADS is being supported under OIT project number 88-1991. [REDACTED]

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2. Attached is a statement of functional and performance requirements for the replacement system. It has been determined that equipment currently offered by WANG will meet them, while facilitating the transition from the old system to the new, a significant consideration. Funding to implement this initiative in FY 1988 is available to ICS. [REDACTED]

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3. Interstation communications of the current ADS are supported by STU II equipment scheduled to be replaced by STU IIIs. Both systems, however, require that the NFIB Secretariat telecommunicate with the other [REDACTED] stations bilaterally, creating substantial inefficiency and unnecessary manhour costs. In conjunction with ADS replacement, it is required that the system's communications be reconfigured to permit the NFIB Secretariat to distribute documents to all stations simultaneously. [REDACTED]

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SUBJECT: Request for Communications Support for NFIB ADS Upgrade
Under OIT Project Number 88-1991

4. It is requested that OIT provide the following support to the ADS replacement programs:

- a. Evaluate proposed WANG equipment suite in the context of functional and performance requirements provided.
- b. Develop and implement an appropriate communications plan.
- c. Oversee procurement and installation of indicated processing and communications equipment suite.
- d. Establish required training and maintenance programs.

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5. The ICS point-of-contact for this program is

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It is requested that OIT's implementation plan for the above be submitted for consideration no later than 1 August 1988, and that implementation be completed no later than 1 June 1989.

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Attachment:
As Stated

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SUBJECT: Request for Communications Support for NFIB ADS Upgrade
Under OIT Project Number 88-1991

Distribution: ICS 4235-88

Original - C/OIT

1 - C/IHC

1 - DD/ICS

1 - C/AS/ICS

1 - IHC

1 - ES/NFIB

1 - DCI/NIC/ADP

Rm 7E62 CIA HQS)

ICS:IHC (13 June 1988)

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STATEMENT OF WORKReplacement of the National Foreign Intelligence Board's
Automated Distribution System (NFIB ADS)I. INTRODUCTION

This Statement of Work (SOW) is for the acquisition of replacement equipment, software, and maintenance to support the operation of the National Foreign Intelligence Board's Automated Distribution System (NFIB ADS), which consists of [] sites located within the Washington, D.C. area. The current system is based on obsolescent 12 years old WANG equipment that is no longer manufactured. Its maintenance is increasingly dependent upon cannibalization of parts from surplus Agency equipment. It is estimated that by early 1990, existing equipment will be completely obsolete, not maintainable, and render NFIB ADS vulnerable to complete or partial breakdowns. Functionally, the system is extremely slow and burdensome. It lacks many capabilities that are commonly available and incorporated in today's systems and that could be used to significantly alleviate existing NFIB ADS Secretariat information processing needs. []

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II. BACKGROUND

The NFIB ADS became operational in 1982 to provide senior intelligence officers of the United States government (i.e., NFIB members) with a dedicated, secure data communications network to support expeditious distribution and timely coordination of the most highly sensitive intelligence assessments and Community positions on national efforts (e.g., National Intelligence Estimates (NIEs), Community policy & position papers, minutes of NFIB meetings and other "private" NFIB-related communications). It contains no restrictions concerning the sensitivity or level of classification of information distributed on the system. Due to the adverse effect that a compromise of such information could have on National Security and the Intelligence Community, NFIB ADS has been designated a "critical system" by the Director of Central Intelligence. It lacks technical security features (e.g., automated access control, accounting)--data protection is based on the physical, personnel, TEMPEST, COMSEC, and procedures. []

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The current NFIB ADS system consists of identical configurations of hardware, software, and communications equipment at each of the [] sites identified below:

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III. FUNCTIONAL REQUIREMENTS

a. Overview. The upgraded NFIB ADS must provide an upgraded secure communications capability to provide for the automatic distribution of the NFIB documents, provide an enhanced word processing facility, significantly improve the speed by which NFIB documents at the hub and each of nodes can be printed, allow for the integration and transmission of line graphics using the same communications links, be based on off-the-shelf software and hardware which is fully supported by the vendor, provide security protection features of the existing system, and provide for field upgrades for such facilities as facsimile to and from each node.

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b. Simple Operation. The successful vendor must provide an upgrade to the NFIB ADS that will improve the level of service and capabilities over the current system, but yet will remain easy to use by intelligence support and secretariat personnel who will operate the equipment. Each node of the system is expected to support no more than five personnel. The government personnel who will operate the system are intelligence support and secretariat personnel. The government cannot support full time computer operators for this effort. The vendor's bid must specify the level of experience and training required to operate the replacement equipment at each of the sites.

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c. Training and Documentation. The vendor must provide at least 10 days per year of training for system users either on-site at government facilities or at an appropriately approved vendor facility. Training must be provided by cleared personnel approved to Central Intelligence Agency (CIA) standards. All documentation must be in a form that is simply to use, but will be sufficient to allow the operators to effectively use the system.

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d. Printer. The replacements for the existing printers must provide letter quality output, be capable of printing black and white line graphics, and print at a rate of at least 10 pages per minute.

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e. Life Cycle Support. The replacement system hardware and software must be supported by the vendor until at least 1996, but offer the flexibility to allow the use of another vendor's hardware or software for interim upgrades and potential connectivity to other systems. []

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f. Vendor Maintenance. All vendor supplied hardware and software maintenance must be provided by [] cleared personnel approved to CIA standards. []

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g. Vendor Supplied System's Analysis. The vendor must provide at least 30 days of systems analysis support to include appropriate planning, installation, conversion, operation, and configuration support for the replacement system. The vendor's analyst(s) must work with government communications representatives to determine the most effective, least expensive communications linkage that will enable the vendor's equipment to support the NFIB ADS functional requirements. The replacement communications system will use either of the following for its secure communications links between the sites: a). existing STU-IIIs, b). replacement STU-IIIs, c.) an expansion of the White House NUIWON network, d.) dedicated point-to-point circuits/channels provided by the government, including appropriate type 1 encryption approved by NSA. All system's analysis and training support must be provided by the vendor with personnel cleared and [] approved to CIA standards. []

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The vendor's bid must include and identify the costs for converting data on the current WANG based system to the equipment and software proposed by the vendor. Included in this cost estimate must be the vendor's estimate and assumption(s) regarding the amount of time required by government personnel to assist or perform the conversion. Any required enhancements to existing air conditioning, power, and other environmental requirements must be specifically identified in the vendor's estimate. []

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h. Expansion Potential. The replacement system must provide expansion capabilities to support an increase of up to a total of [] sites and potential new processing facilities such as secure facsimile transmission to and from each site for small maps and annotated pictures that often accompany the NIEs. In addition, the vendor should bid a baseline architecture that can be expanded to support optical character readers at each site, and automatic retrieval of NFIB documents based on word or character searches in any part of the text or stored graphics. If equipment is not yet TEMPESTed, the vendor must provide expected delivery dates when equipment will meet TEMPEST criteria necessary to operate at the various nodes of the NFIB ADS. []

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i. Security. The replacement system must provide automated controlled access protection and auditing facilities and must be able to encrypt NFIB materials stored on removable hard and floppy disks as well as to provide additional encryption of data transmitted over the communications links. The encryption provided by the vendor must be at least public key encryption. It will be used to reduce the possibility of inadvertent mixing of NFIB materials with other data processed on other systems with similar storage devices and to provide for privacy protection over and beyond the government provided secure communications links. []

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j. Pre-Award Demonstration. Prior to award, the vendor must demonstrate to the government's satisfaction that proposed products and services can satisfy the functional requirements of the NFIB ADS.

IV. PERFORMANCE AND SYSTEM SUPPORT REQUIREMENTS

a. Automatic Transmission. The replacement system must provide a secure means to automatically distribute NFIB materials from the hub to one or all of the other nodes with a maximum of 15 minutes of operator support/review. The hub operator must be able to monitor the status of the nodes and to determine whether the nodes have received the material. The vendor's telecommunications facilities must support a variety of transmission speeds including 1200, 2400, 4800, and 9600 BAUD and at least ASYNC, BISYNC, SYNC, and HDLC protocols.

b. Word Processing. The vendor's word processing support must be compatible throughout the NFIB ADS and with the NIC support system which is used to develop the draft NIEs before they are moved to the NFIB ADS for formal coordination. The replacement system must eliminate the need to re-key materials sent from the NIC to the hub. The word processing provided by the vendor must provide advanced features to include spell checking and thesaurus, but must be easy to use.

c. Printer Support. The replacements for the existing printers must provide letter quality output, be capable of printing black and white line graphics, and print at a rate of at least 10 pages per minute.

d. Storage Requirement. The hub must be capable of storing at least 10,000 pages of NFIB materials for reference and retrieval. This storage facility must include the ability to store line graphics (e.g., bar graphs and pie charts) as imbedded graphics stored with the text of NFIB documents. Each of the nodes must be capable of storing at least 2,000 pages of NFIB text materials, but need not have the capability of storing the line graphics. Full storage of both text and line graphics would be preferred.

e. Access Requirements and System Monitoring. The replacement system must provide for automatic authentication of authorized users at each of the nodes of the system. The system must synchronize itself for operation without operator intervention. Each of the nodes must be capable of creating documents, editing materials forwarded to them for comment, and operating independently (as a standalone) when the hub is not operating. In addition, each node must be able to transmit material to the hub and an alert of such an action must be provided to the operator at the hub. When the hub is not operating, the nodal systems must be able to queue the materials to be transmitted and automatically transmit them to the hub when it becomes operational. The hub must provide a capability for the nodal operators to access the hub system and to retrieve and download authorized materials stored on the hub. Under conditions specified at the hub location, one node should be able to forward messages and correspondence to another node without operator intervention at the hub. The system must provide for 5 day per week,

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10 hour per day operation with procedures to bring the system up during crisis periods. The hub operator must be able to monitor in real time the status of the system including those nodes that are actively attached to the system and the identification of the users at each node. Audit records should be available to the hub operator. [REDACTED] 25X1

f. Vendor Maintenance and System's Analysis Support. The vendor must provide support as indicated in section III of this SOW. Failure to provide such support with appropriately cleared personnel will constitute a breach of the contract. [REDACTED] 25X1

g. Security. The vendor must provide support as indicated in section III of this SOW. [REDACTED] 25X1

h. Potential Enhancements. The vendor's basic configuration should allow for the future expansion of the system to allow for an increase of up to a total of [REDACTED] sites and potential new processing facilities such as secure facsimile transmission to and from each site for small maps and annotated pictures that often accompany the NIEs. Permanent storage of such images need be provided only at the hub, but each of the nodes must be able to obtain copies of these previously stored images and to download them to their sites for temporary review and printing. In addition, the vendor should bid a baseline architecture that can be expanded to support optical character readers at each site, and automatic retrieval of NFIB documents based on word or character searches in any part of the text or stored graphics. If equipment is not yet TEMPESTed, the vendor must provide expected delivery dates when equipment will meet TEMPEST criteria necessary to operate at the various nodes of the NFIB ADS. [REDACTED] 25X1

i. Training and Documentation. The vendor's training program and user documentation must be available at the time the replacement systems are installed. [REDACTED] 25X1

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V. DELIVERABLES

a. Transition Plan. Within 15 days after the government's authorization to proceed, the vendor must provide a transition plan and proposed schedule for the installation of the new equipment/software and the removal and secure disposition of the old equipment, software, and storage media. No node of the system shall be out for more than two consecutive working days. The vendor shall propose target dates for installation and actions required by the government in order to insure the timely installation and operation of the replacement equipment. The government's representative must approve the transition plan before the vendor can proceed with the new installations. [REDACTED]

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b. Hardware & Software Installation. Within 30 days after government approval of the transition plan, the vendor must begin the replacement of hardware and software in the NFIB ADS. Installations must be led by [REDACTED] approved representatives and may include non-cleared personnel only if previously and specifically approved by the government on a site-by-site basis. The vendor's installation team shall proceed to each subsequent installation site only after the government tests, evaluates, and formally accepts the replacement hardware and software at the previous installation site. The vendor, with government assistance, must successfully demonstrate the telecommunications features of the replacement equipment at each site as part of the acceptance test. The vendor shall provide appropriate rack mounts, modular tables/desks, or printer stands as may be required by the government. The vendor shall include hardware and software fail soft features to protect equipment and data from power loss or spiking. [REDACTED]

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c. Conversion of Existing Data and Training. Within two days after government acceptance of installed products at each site, the vendor shall provide for conversion of data on the existing system to the replacement system. In addition, the vendor shall provide training (on-site if required) to enable the government operators to use the equipment in support of NFIB ADS operations. [REDACTED]

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d. Recurring Training. The vendor shall provide for recurring training of government employees in NFIB ADS operations. The vendor shall use appropriately cleared representatives and shall provide for hands-on training at the vendor's facility and each of the [REDACTED] ADS sites. Such training shall include, but not be limited to, ADS system operation, use of vendor supplied word processing capabilities, public key encryption devices, facsimile capability, and those hardware/software error detection/correction procedures about which operators must be knowledgeable. [REDACTED]

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e. Maintenance. Vendor personnel, cleared to the [REDACTED] level under standards established by the Central Intelligence Agency, shall perform all routine maintenance on vendor supplied equipment of the NFIB ADS. Problems that cannot be corrected by the vendor's cleared maintenance personnel shall be performed under the supervision of cleared personnel who are specifically approved by the government. [REDACTED]

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